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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/683,264	12/05/2001	Michael A. Siani-Rose	3407.2	1024
33494	7590	03/24/2006	EXAMINER	
TOWNSEND AND TOWNSEND AND CREW LLP TWO EMBARCADERO CENTER 8TH FLOOR SAN FRANCISCO, CA 94111-3834				ALLEN, MARIANNE P
		ART UNIT		PAPER NUMBER
				1647

DATE MAILED: 03/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
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EXAMINER

ART UNIT PAPER

20060322

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

The reply filed on 1/13/2006 is not fully responsive to the prior Office Action because of the following omission(s) or matter(s): Errors were detected when processing the computer readable form submitted. See attached printout. See 37 CFR 1.111. Since the above-mentioned reply appears to be *bona fide*, applicant is given **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marianne P. Allen whose telephone number is 571-272-0712. The examiner can normally be reached on Monday-Thursday, 5:30 am - 1:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback, can be reached on 571-272-0961. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Marianne P. Allen
Primary Examiner
Art Unit: 1647

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/683,264
Source: 1Fw16
Date Processed by STIC: 1/18/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED
SUGGESTED CORRECTION

SERIAL NUMBER: 09/683,264

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. **Per Sequence Rules**, each n or Xaa can **only represent** a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>

→ Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/683,264

DATE: 01/18/2006
TIME: 09:46:35

Input Set : A:\018547.ST25.txt
Output Set: N:\CRF4\01182006\I683264.raw

3 <110> APPLICANT: Affymetrix, Inc.
 4 Siani-Rose, Michael A.
 5 Shigeta, Ron
 7 <120> TITLE OF INVENTION: Computer Software for Automated Annotation of Biological
 8 Sequences
 10 <130> FILE REFERENCE: 018547-048820US
 12 <140> CURRENT APPLICATION NUMBER: US 09/683,264
 13 <141> CURRENT FILING DATE: 2001-12-05
 15 <150> PRIOR APPLICATION NUMBER: US 60/285,144
 16 <151> PRIOR FILING DATE: 2001-04-19
 18 <150> PRIOR APPLICATION NUMBER: US 60/285,403
 19 <151> PRIOR FILING DATE: 2001-04-20
 21 <160> NUMBER OF SEQ ID NOS: 5
 23 <170> SOFTWARE: PatentIn version 3.3
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 373
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Artificial
 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: Figure GRAPAHIT1 sequence
 33 <400> SEQUENCE: 1
 35 Leu Leu Gln Asp Ser Leu Leu Arg Leu Lys Asp Tyr Arg Gln Cys Phe
 36 1 5 10 15
 39 Glu Cys Ser Asp Val Ala Leu Asn Glu Ala Val Gln Gln Met Val Asn
 40 20 25 30
 43 Ser Gly Glu Ala Ala Ala Lys Glu Glu Trp Val Ala Thr Val Thr Gln
 44 35 40 45
 47 Leu Leu Met Gly Ile Glu Gln Ala Leu Ser Ala Asp Ser Ser Gly Ser
 48 50 55 60
 51 Ile Leu Lys Val Ser Ser Thr Thr Gly Leu Val Arg Leu Thr Asn
 52 65 70 75 80
 55 Asn Leu Ile Gln Val Ile Asp Cys Ser Met Ala Val Gln Glu Glu Ala
 56 85 90 95
 59 Lys Glu Pro His Val Ser Ser Val Leu Pro Trp Ile Ile Leu His Arg
 60 100 105 110
 63 Ile Ile Trp Gln Glu Glu Asp Thr Phe His Ser Leu Cys His Gln Gln
 64 115 120 125
 67 Gln Leu Gln Asn Pro Ala Glu Glu Gly Met Ser Glu Thr Pro Met Leu
 68 130 135 140
 71 Pro Ser Ser Leu Met Leu Leu Asn Thr Ala His Glu Tyr Leu Gly Arg
 72 145 150 155 160
 75 Arg Ser Trp Cys Cys Asn Ser Asp Gly Ala Leu Leu Arg Phe Tyr Val
 76 165 170 175

ppr 1-4
Does Not Comply
Corrected Diskette Needed
insufficient explanation of
Artificial Sequence
(give source of
genetic
material)
see item 11 on
Error Summary
sheet

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/683,264

DATE: 01/18/2006
TIME: 09:46:35

Input Set : A:\018547.ST25.txt
Output Set: N:\CRF4\01182006\I683264.raw

79 Arg Val Leu Gln Lys Glu Leu Ala Ala Ser Thr Ser Glu Asp Thr His
 80 180 185 190
 83 Pro Tyr Lys Glu Glu Leu Glu Thr Ala Leu Glu Gln Cys Phe Tyr Cys
 84 195 200 205
 87 Leu Tyr Ser Phe Pro Ser Lys Lys Ser Lys Ala Arg Tyr Leu Glu Glu
 88 210 215 220
 91 His Ser Ala Gln Gln Val Asp Leu Ile Trp Glu Asp Ala Leu Phe Met
 92 225 230 235 240
 95 Phe Glu Tyr Phe Lys Pro Lys Thr Leu Pro Glu Phe Asp Ser Tyr Lys
 96 245 250 255
 99 Thr Ser Thr Val Ser Ala Asp Leu Ala Asn Leu Leu Lys Arg Ile Ala
 100 260 265 270
 103 Thr Ile Val Pro Arg Thr Glu Arg Pro Ala Leu Ser Leu Asp Lys Val
 104 275 280 285
 107 Ser Ala Tyr Ile Glu Gly Thr Ser Thr Glu Val Pro Cys Leu Pro Glu
 108 290 295 300
 111 Gly Ala Asp Pro Ser Pro Pro Val Val Asn Glu Leu Tyr Tyr Leu Leu
 112 305 310 315 320
 115 Ala Asp Tyr His Phe Lys Asn Lys Glu Gln Ser Lys Ala Ile Lys Phe
 116 325 330 335
 119 Tyr Met His Asp Ile Cys Ile Cys Pro Asn Arg Phe Asp Ser Trp Ala
 120 340 345 350
 123 Gly Met Ala Leu Ala Arg Ala Ser Arg Ile Gln Asp Lys Leu Asn Ser
 124 355 360 365
 127 Asn Glu Leu Lys Ser
 128 370
 131 <210> SEQ ID NO: 2
 132 <211> LENGTH: 178
 133 <212> TYPE: PRT
 134 <213> ORGANISM: Artificial
 136 <220> FEATURE:
 137 <223> OTHER INFORMATION: Figure 1vhr sequence *same error*
 139 <400> SEQUENCE: 2
 141 Ser Val Gln Asp Leu Asn Asp Leu Leu Ser Asp Gly Ser Gly Cys Tyr
 142 1 5 10 15
 145 Ser Leu Pro Ser Gln Pro Cys Asn Glu Val Thr Pro Arg Ile Tyr Val
 146 20 25 30
 149 Gly Asn Ala Ser Val Ala Gln Asp Ile Pro Lys Leu Gln Lys Leu Gly
 150 35 40 45
 153 Ile Thr His Val Leu Asn Ala Ala Glu Gly Arg Ser Phe Met His Val
 154 50 55 60
 157 Asn Thr Asn Ala Asn Phe Tyr Lys Asp Ser Gly Ile Thr Tyr Leu Gly
 158 65 70 75 80
 161 Ile Lys Ala Asn Asp Thr Gln Glu Phe Asn Leu Ser Ala Tyr Phe Glu
 162 85 90 95
 165 Arg Ala Ala Asp Phe Ile Asp Gln Ala Leu Ala Gln Lys Asn Gly Arg
 166 100 105 110
 169 Val Leu Val His Cys Arg Glu Gly Tyr Ser Arg Ser Pro Thr Leu Val
 170 115 120 125

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/683,264

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Input Set : A:\018547.ST25.txt
Output Set: N:\CRF4\01182006\I683264.raw

173 Ile Ala Tyr Leu Met Met Arg Gln Lys Met Asp Val Lys Ser Ala Leu
 174 130 135 140
 177 Ser Ile Val Arg Gln Asn Arg Glu Ile Gly Pro Asn Asp Gly Phe Leu
 178 145 150 155 160
 181 Ala Gln Leu Cys Gln Leu Asn Asp Arg Leu Ala Lys Glu Gly Lys Leu
 182 165 170 175
 185 Lys Pro
 189 <210> SEQ ID NO: 3
 190 <211> LENGTH: 159
 191 <212> TYPE: PRT
 192 <213> ORGANISM: Artificial
 194 <220> FEATURE:
 195 <223> OTHER INFORMATION: Figure 1a17 sequence
 197 <400> SEQUENCE: 3
 199 Pro Pro Ala Asp Gly Ala Leu Lys Arg Ala Glu Glu Leu Lys Thr Gln
 200 1 5 10 15
 203 Ala Asn Asp Tyr Phe Lys Ala Lys Asp Tyr Glu Asn Ala Ile Lys Phe
 204 20 25 30
 207 Tyr Ser Gln Ala Ile Glu Leu Asn Pro Ser Asn Ala Ile Tyr Tyr Gly
 208 35 40 45
 211 Asn Arg Ser Leu Ala Tyr Leu Arg Thr Glu Cys Tyr Gly Tyr Ala Leu
 212 50 55 60
 215 Gly Asp Ala Thr Arg Ala Ile Glu Leu Asp Lys Lys Tyr Ile Lys Gly
 216 65 70 75 80
 219 Tyr Tyr Arg Arg Ala Ala Ser Asn Met Ala Leu Gly Lys Phe Arg Ala
 220 85 90 95
 223 Ala Leu Arg Asp Tyr Glu Thr Val Val Lys Val Lys Pro His Asp Lys
 224 100 105 110
 227 Asp Ala Lys Met Lys Tyr Gln Glu Cys Asn Lys Ile Val Lys Gln Lys
 228 115 120 125
 231 Ala Phe Glu Arg Ala Ile Ala Gly Asp Glu His Lys Arg Ser Val Val
 232 130 135 140
 235 Asp Ser Leu Asp Ile Glu Ser Met Thr Ile Glu Asp Glu Tyr Ser
 236 145 150 155
 239 <210> SEQ ID NO: 4
 240 <211> LENGTH: 235
 241 <212> TYPE: PRT
 242 <213> ORGANISM: Artificial
 244 <220> FEATURE:
 245 <223> OTHER INFORMATION: Figure GRAPAHIT2 sequence
 247 <400> SEQUENCE: 4
 249 Pro Leu Cys Lys Gln Ala Leu Glu Asp Leu Glu Lys Thr Ser Gly His
 250 1 5 10 15
 253 Asp His Pro Asp Val Ala Thr Met Leu Asn Ile Leu Ala Leu Val Tyr
 254 20 25 30
 257 Arg Asp Gln Asn Lys Tyr Lys Glu Ala Ala His Leu Leu Asn Asp Ala
 258 35 40 45
 261 Leu Ala Ile Arg Glu Lys Thr Leu Gly Lys Asp His Pro Ala Val Ala
 262 50 55 60

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/683,264

DATE: 01/18/2006
TIME: 09:46:35

Input Set : A:\018547.ST25.txt
Output Set: N:\CRF4\01182006\I683264.raw

265 Ala Thr Leu Asn Asn Leu Ala Val Leu Tyr Gly Lys Arg Gly Lys Tyr
 266 65 70 75 80
 269 Lys Glu Ala Glu Pro Leu Cys Lys Arg Ala Leu Glu Ile Arg Glu Lys
 270 85 90 95
 273 Val Leu Gly Lys Phe His Pro Asp Val Ala Lys Gln Leu Ser Asn Leu
 274 100 105 110
 277 Ala Leu Leu Cys Gln Asn Gln Gly Lys Ala Glu Glu Val Glu Tyr Tyr
 278 115 120 125
 281 Tyr Arg Arg Ala Leu Glu Ile Tyr Ala Thr Arg Leu Gly Pro Asp Asp
 282 130 135 140
 285 Pro Asn Val Ala Lys Thr Lys Asn Asn Leu Ala Ser Cys Tyr Leu Lys
 286 145 150 155 160
 289 Gln Gly Lys Tyr Gln Asp Ala Glu Thr Leu Tyr Lys Glu Ile Leu Thr
 290 165 170 175
 293 Arg Ala His Glu Lys Glu Phe Gly Ser Val Asn Gly Asp Asn Lys Pro
 294 180 185 190
 297 Ile Trp Met His Ala Glu Glu Arg Glu Glu Ser Lys Asp Lys Arg Arg
 298 195 200 205
 301 Asp Ser Ala Pro Tyr Gly Glu Tyr Gly Ser Trp Tyr Lys Ala Cys Lys
 302 210 215 220
 305 Val Asp Ser Pro Thr Val Asn Thr Thr Leu Arg
 306 225 230 235
 309 <210> SEQ ID NO: 5
 310 <211> LENGTH: 233
 311 <212> TYPE: PRT
 312 <213> ORGANISM: Artificial
 314 <220> FEATURE:
 315 <223> OTHER INFORMATION: Figure GRAPAHIT3 sequence
 317 <400> SEQUENCE: 5
 319 Lys Asp Trp Lys Gly Ala Leu Asp Ala Phe Ser Ala Val Gln Asp Pro
 320 1 5 10 15
 323 His Ser Arg Ile Cys Phe Asn Ile Gly Cys Met Tyr Thr Ile Leu Lys
 324 20 25 30
 327 Asn Met Thr Glu Ala Glu Lys Ala Phe Thr Arg Ser Ile Asn Arg Asp
 328 35 40 45
 331 Lys His Leu Ala Val Ala Tyr Phe Gln Arg Gly Met Leu Tyr Tyr Gln
 332 50 55 60
 335 Thr Glu Lys Tyr Asp Leu Ala Ile Lys Asp Leu Lys Glu Ala Leu Ile
 336 65 70 75 80
 339 Gln Leu Arg Gly Asn Gln Leu Ile Asp Tyr Lys Ile Leu Gly Leu Gln
 340 85 90 95
 343 Phe Lys Leu Phe Ala Cys Glu Val Leu Tyr Asn Ile Ala Phe Met Tyr
 344 100 105 110
 347 Ala Lys Lys Glu Glu Trp Lys Lys Ala Glu Glu Gln Leu Ala Leu Ala
 348 115 120 125
 351 Thr Ser Met Lys Ser Glu Pro Arg His Ser Lys Ile Asp Lys Ala Met
 352 130 135 140
 355 Glu Cys Val Trp Lys Gln Lys Leu Tyr Glu Pro Val Val Ile Pro Val
 356 145 150 155 160

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/683,264

DATE: 01/18/2006
TIME: 09:46:35

Input Set : A:\018547.ST25.txt
Output Set: N:\CRF4\01182006\I683264.raw

359 Gly Lys Leu Phe Arg Pro Asn Glu Arg Gln Val Ala Gln Leu Ala Lys
360 165 170 175
363 Lys Asp Tyr Leu Gly Lys Ala Thr Val Val Ala Ser Val Val Asp Gln
364 180 185 190
367 Asp Ser Phe Ser Gly Phe Ala Pro Leu Gln Pro Gln Ala Ala Glu Pro
368 195 200 205
371 Pro Pro Arg Pro Lys Thr Pro Glu Ile Phe Arg Ala Leu Glu Gly Glu
372 210 215 220
375 Ala His Arg Val Leu Phe Gly Phe Val
376 225 230

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/18/2006
PATENT APPLICATION: US/09/683,264 TIME: 09:46:36

Input Set : A:\018547.ST25.txt
Output Set: N:\CRF4\01182006\I683264.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/683,264

DATE: 01/18/2006

TIME: 09:46:36

Input Set : A:\018547.ST25.txt

Output Set: N:\CRF4\01182006\I683264.raw